Notebook, N-06-10-01.1

This notebook covers the period February-April 1907. It was used by Edison, Olav Berg, and Ludwig F. Ott as a log to record the preparation of iron compounds, numbers 3427-4507, for use in storage battery endurance tests. The front cover is labeled "Iron 3427 to 4507 Muckers—." The pages are unnumbered. Approximately 210 pages have been used.

Only the sections of the book with substantive Edison notes and marginalia have been selected.

Nos 3427 to incl recd. and entered
Feb. 26, 67 Attached by [illegible]

3427	3428
495	487
187	225
197	200
290	245
250	253

NG

NG

all to Gz 5 grammi -

3427 #1 B Non Pyrophoric 5% Hg O
3428 #1 B Non Pyrophoric 5% Hg O
3.5g Fe 80% Wo 20%

3429 #2 B Non Pyrophoric 3% Hg O
3430 #2 B Non Pyrophoric 5% Hg O
4g Fe 80% Wo 20%

3431 #2 B Selfheated 5% Hg O
3432 #2 B Selfheated 5% Hg O
4g Fe 80% Wo 20%

NG

3433 #38 Nonpyrophoric 5% HgO
3434 #38 Non Pyrophoric 5% HgO
4g Fe 80% Wo 20%

NG

3435 #38 Selfheated 5% HgO
3436 #38 Selfheated 5% HgO
4g Fe 80% Wo 20%

3437 #48 Non Pyrophoric 5% HgO
3438 #48 Non Pyrophoric 5% HgO
4g Fe 80% Wo 20%

3441	3442
1012	1020
812	687
766	624
1196	1180
1277	1230

3439 #4B Selfheated 5% HgO
3440 #4B Selfheated 5% HgO
5g Fe 80% Wo 20%

3441 #1B Non Pyrophoric 5% HgO
3442 #1B Non Pyrophoric 5% HgO
4g Fe 80% Bi 20%

3443 #1B Selfheated 5% HgO
3444 #1B Selfheated 5% HgO
4g Fe 80% Bi 20%

3445	-6
950	950
856	818
743	687
1070	1003
1035	1000

3447	8
1252	1253
318	287
287	237
1497	1477
1455	1467

3445 #2B Non Pyrophoric 5% Hg_2O
3446 #2B Non Pyrophoric 5% Hg_2O
2.50g Fe 80% Bi 20%

3447 #2B Selfheated 5% Hg_2O
3448 #2B Selfheated 5% Hg_2O
4g Fe 80% Bi 20%

3449 #3B Non Pyrophoric 5% Hg_2O
3450 #3B Non Pyrophoric 5% Hg_2O
4g Fe 80% Bi 20%
2 bottles of #3B non pyrophoric Silver Rahi says it is all right

3451 #3B Selfheated 5% HgO
3452 #3B Selfheated 5% HgO
4.g Fe 80% Bi 20%

3453 #4 B Non Pyrophoric 5% HgO
3454 #4 B Non Pyrophoric 5% HgO
5g Fe 80% Bi 20%

3455 #4 B Selfheated 5% HgO
3456 #4 B Selfheated 5% HgO
4.0g Fe 80% Bi 20%

3457 #5B Non Pyrophoric 5% HgO
3458 #5B Non Pyrophoric 5% HgO
5g Fe 80% Bi 20%

3459 #6 B Non Pyrophoric 5% HgO
3460 #6 B Non Pyrophoric 5% HgO
3g Fe 80% Bi 20%

3461 #6B Selfheated 5% HgO
3462 #6B Selfheated 5% HgO
3.5g Fe 80% Bi 20%

3463 #7B Non Pyrophoric 5% HgO
3464 #7B Non Pyrophoric 5% HgO
4.5g Fe 80% Bi 20%

3465 #8B Non Pyrophoric 5% HgO
3466 #8B Non Pyrophoric 5% HgO
4g Fe 80% Bi 20%

3467 #9B Non Pyrophoric 5% HgO
3468 #9B Non Pyrophoric 5% HgO
4g Fe 80% Bi 20%

3469 # 10 B Non Pyrophoric 5% HgO
3470 # 10 B Non Pyrophoric 5% HgO
8g Fe 80% Bi 20%

3471 # 11B Non Pyrophoric 5% HgO
3472 # 11B Non Pyrophoric 5% HgO
4g. Fe 80% Bi 20%

3473 # 11B Sulphiated 5% HgO
3474 # 11B Sulphiated 5% HgO
4.g Fe 80% Bi 20%

3475 —6

985	980
937	973
912	975
1270	1340
1330	1360

3 Grams note

3477 —5

890	825
612	615
600	606
865	790
625	625

3479 —80

830	935
700	750
425	750
855	940
677	175

3475 #1 L.O. Non Pyrophoric 5% Hg O
3476 #1 L.O. Non Pyrophoric 5% Hg O
3 g Ferrous Ammon. Sulphate

3477 #3 L.O. Non Pyrophoric 5% Hg O
3478 #3 L.O. Non Pyrophoric 5% Hg O
3.05 g Fe 80% Mg. 20%

3479 #3 L.O. Sulphuric 5% Hg O
3480 #3 L.O. Sulphuric 5% Hg O
4 g Fe 80% Mg. 20%

3481 — 2

1417	1375
925	826
1056	950
1435	1340
1447	1305

4 grms

3483 — 4

600	630
300	381
325	350
445	465
412	432

3485 — 6

905	1140
962	1031
562	662
925	1060
900	1055

3481 #4 Z.O. Non Pyrophoric 5% HgO
3482 #4 Z.O. Non Pyrophoric 5% HgO
4g Fe 80% Zn 20%

to this Zn

3483 #8 Z.O. Non Pyrophoric 5% HgO
3484 #8 Z.O. Non Pyrophoric 5% HgO
5g Fe acetate

3485 #9 Z.O. Non Pyrophoric 5% HgO
3486 #9 Z.O. Non Pyrophoric 5% HgO
5g Ferrous Carbonate

NG

ng

3491 — 2

1450	1405
800	837
875	870
1300	1292
1222	1270

4 grams

3487 #10 Z.O, Non Pyrophoric 5% H_2O
3488 #10 Z.O. Non Pyrophoric 5% H_2O
4g Ferric Carbonate

3489 #10 Z.O Selfheated 5% H_2O
3490 #10 Z.O. Selfheated 5% H_2O
4g Ferric Carbonate

3491 # 14 Z.O Non Pyrophoric 5% H_2O
3492 # 14 Z.O. Non Pyrophoric 5% H_2O
4g Fe 80% Cu 20%

Recd Feb 27 Entered and checked by [illegible]

ng

3495 — 6

1350	1395
1043	1075
1662	1125
1460	1430
1087	1200

3497 — 4

1525	1457
1125	987
1250	1125
1500	1497
1450	1330

4 gpm

3493 #1 G Selfheated 5% HgO
3494 #1 G Selfheated 5% HgO
4g Fe 80 W 20%

3495 #1 Z.O. Selfheated 5% HgO
3496 #1 Z.O. Selfheated 5% HgO
4g Ferrous Ammon Sulphate

3497 # 4 Z.O. Selfheated 5% HgO
3498 # 4 Z.O. Selfheated 5% HgO
4g Fe 80% Z 20%

NG

3503 — 4

1630	1600
1118	1050
1162	1162
1282	1152
1400	1372

3499 # 8 L.O. Selfheated 5% H_2O
3500 # 8 L.O. Selfheated 5% H_2O
4g Fe acetate

3501 # 9 L.O. Selfheated 5% H_2O
3502 # 9 L.O. Selfheated 5% H_2O
4g. Ferrous Carbonate

3503 # 14 L.O. Selfheated 5% H_2O
3504 # 14 L.O. Selfheated 5% H_2O
5g Fe 80% Cu 20%

Nothing Unusual

"

"

3505 #5B Selfheated 5% HgO
3506 #5B Selfheated 5% HgO
4g Fe 80% Bi 20%

3507 #8B Selfheated 5% HgO
3508 #8B Selfheated 5% HgO
4g Fe 80% Bi 20%

3509 #7B Selfheated 5% HgO
3510 #7B Selfheated 5% HgO
4g Fe 80% Bi 20%

Nothing Unusual

11

3515–16

400	400
193	187
125	118
300.	400
290	290

3511 #9 B Selfheated 5% HgO
3512 #9 B Selfheated 5% HgO
4g Fe 80% Bi 20%

3513 #10B Selfheated 5% HgO
3514 #10B Selfheated 5% HgO
4g Fe 80% Bi 20%

3515 #85g Selfheated 5% HgO
3516 #85g Selfheated 5% HgO
5g. Fe 70 Sb. 30

Recd from Silver Fabr Mar 12 07
and entered same date 9.00 P.M.
Checked by: Alan Berg
3517 to 3640 incl

ng

ng

ng

3517 8#5 Non Pyro 5% Hg O
3518 " " " " " "
4g 80 Fe 20 Wo

3519 8#5 Selfheated 5% Hg O
3520 " " " " " "
4g 80 Fe 20 Wo

3521 8#6 Non Pyro 5% Hg O
3522 " " " " " " "
4g Fe 80 Wo 20 + Phosphorus

Mg

Mg

Mg

3523 S"6 Selfheated 5% HgO
3524 " " " " "
4g 80Fe 20Wo with Phosphorous

3525 S"7 Non Pyro 5% HgO
3526 " " " " " " "
3.5g Fe 80% Wo 20 + Phosphorous

3527 S 7 Selfheated 5% HgO
3528 " " " " "
3.5g Fe 80 Wo 20 + Phosphorous

Very Bad 5 to V
Manganese bad

Very Bad 5 to V
Mn

3533–34

1262	1200
897	762
1050	997
1300	1257
1500	1470

4 grams

3529 B 81 Non Pyro 5% Hg O
3530 " " " " " " "
4 g Fe 80 Bi 10 Mn 20

3531 B 81 Sulphated 5% Hg O
3532 " " " " " "
4 g Fe 80 Bi 10 Mn 20

3533 B 12 Non Pyro 5% Hg O
3534 " " " " " "
4 g 80 Fe 20 Bi.

Nothing Unusual

"

"

3535 B 12 Selfheated 5% HgO
3536 B 12 " " " "
4g 80 Fe 20 Bi.

3537 B 13 Non Pyro 5% HgO
3538 " " " " " "
4g 80 Fe 20 Bi.

3539 B 13 Self heated 5% HgO
3540 " " " " " "
4g 80 Fe 20 Bi

Nothing recorded

1)

11
11

3541 B 14 Non Pyro 5% Hg O
3542 " " " " " " "
4g Fe 80 Bi 20

3543 B 14 Selfheated 5% Hg O
3544 " " " " " "
5g Fe 80 Bi 20

3545 B 15 Non Pyro 5% Hg O
3546 " " " " " " "
5g Fe 80 Bi 20

			Hot 100
4172			1525
73			1525
74			1520
75			1570
76			1620
77			1575

75-6-7 in NaOH. ann on 750 rate 425 687 825

4172-3-4 — KOH " 875 987 975

KOH much better on high rates.

4172
4173
4174 } Regular 5 gram non-assembled with 2 Nickel Tubes - to run on ~~hot test two Ni tubes~~ - 21% KOH Containing 2 grms LiOH in each

Calc — 300 Hot — 1330 (V) 2080 (½ V)
1265 2035
1190 1950

4175
4176
4177 } Dup of 4172 Except 15% NaOH. Containing 2 grms LiOH in each

Calc —
15% NaOH 2 LiOH 300 hot
700 1140
930 1485
725 1165

4178
4179) (W) 59 Non Pyro 5% H_2O
Plain Iron
4.5 g Fx only

4180
4181 (W) 59 self heated 5% Hg O
Plain iron
4.5g
Fe only

4182
4183 (W) 68 non type 5% Hg O
Plain iron
4.5g
Fe only

4184
4185 (W) 68 self heated 5% Hg O
Plain iron
4.5g
Fe only

4186 (W) 69 non typ 5% HgO
4187 P Lindrum
4g Fe only

4188 (W) 69 self heated 5% HgO
4189 P Lewis drum
4.5g Fe only

*190 (W) 75 non typ 5% HgO
*191 Fe & Cu
5.5g Fe + Cu

4192 (W) 75 sulphated 5% MgO
4193 Fe & Zn
5.5g Fe + Zn

4194 (W) 78 roasted 5% MgO
4195 Fe & Zn
4.5g Fe + Zn

4196 (W) 78 sulphated 5% MgO
4197 Fe & Zn
4.5g Fe + Zn

4198 (W) 79 non hypo 5% HgO
4199 Fe + Cu
5.5g Fe + Zn + Cu

4200 (W) 79 sulphurated 5% HgO
4201 Fe + Cu
5.5g Fe + Zn + Cu

4202 (W) 108 non hypo 5% HgO
4203 Fe + Cu
5.5g

4204
4205 (W) 108 sulphurated 5% HgO
Fe + Bi
5.5g

4206
4207) B 59 non-pyro 5% HgO
Fe 80 Bi 20
7.5g

4208
4209) B 59 sulphurated 5% HgO
Fe 80 Bi 20
7.5g

4210
4211) B 61 non pyro 5% HgO
Fe 95 Bi 5
4g

4212
4213) B 61 sulphated 5% HgO
Fe 95 Bi 5
4g

4214
4215) B 62 non pyro 5% HgO
Fe 95 Bi 5
4.5g

4216
4217) B 62 sulphuated 5%/0 Hg O
Fe 95 Bi 5
4.5g

4218
4219) B 63 non hydro 5%/0 Hg O
Fe 95 Bi 5
3.5g

4220
4221) B 63 sulphuated 5%/0 Hg O
Fe 95 Bi 5
4.5g

4222
4223) B 64 nonfyro 5% Hg O.
Fe 95 Bi S
4.5g

4224
4225) B 64 selfheated 5% Hg O
Fe 95 Bi S
4.5g

4226
4227) B 65 nonfyro 5% Hg O
Fe 95 Bi S
4.5g

4228
4229) B 65 selfheated 5% HgO
4.5g Fe95Bi5

4230
4231) B 66 non pyro 5% HgO
Fe80Bi20
6.g

4232
4233) B 66 selfheated 5% HgO
Fe80Bi20
5.5g

4234
4235) B 67 non ppt 5%alloy 0

Fe95Bi5

5g

4236
4237) B 67 calcinated 5%alloy 0

Fe95Bi5

5g

4238
4239) B 68 non ppt 5%alloy 0

Fe95Bi5

5g

4240
4241) B 68 sulphated 5% HgO
$Fe_{.95}Bi_{.5}$
5g

4242
4243) B 69 non sulph. 5% HgO
$Fe_{.95}Bi_{.5}$
4.5g

4244
4245) B 69 sulphated 5% HgO
$Fe_{.95}Bi_{.5}$
4.5g

4246
4247 } B 70 non pyro 5%/Hg O
Fe 75 Bi 5
4g

4248
4249 } B 70 non pyro 5%/Hg O
Fe 75 Bi 5
4g

4250
4251 } B 71 selfheated 5%/Hg O
Fe 75 Bi 5
4g

4252
4253) B 72 monpyro 5/0Hg0

FeSBi5

4g

4254
4255) B 72 sulphated 5/0Hg0

FeSBi5

4g

4256
4257) B 73 monpyro 5/0Hg0

FeSBi5

4g

4258
4259) B 73 reflheated 5% HgO
$Fe_{95}Bi_5$
4g

4260
4261) B 74 non paper 5% HgO
$Fe_{95}Bi_5$
4g

4262
4263) B 74 reflheated 5% HgO
$Fe_{95}Bi_5$
4.5g

4264
4265) B 75 nonpyro 5% HgO
Fe 99 Bi 1?
4g

4266
4267) B 75 reflected 5% HgO
Fe 99 Bi 1?
4g

4268
4269) B 76 nonpyro 5% HgO
Fe 95 Bi 5
4g

4270
4271) B 76 selfheated 5% H_2O
$Fe_{95}Bi_5$
4g

4272
4273) Glaster 26 non pyro 5% H_2O
$Fe_{80}Sb_{20}$
4g

4274
4275) Glaster 26 selfheated 5% H_2O
$Fe_{80}Sb_{20}$
4g

4276
4277) Glaster 27 non hyp 5% H2O
Fe 80 Sb 20

5,5g

4278
4279) Glaster 27 selfheated 5% H2O
Fe 80 Sb 20

5,5g

4280
4281) Glaster 28 non hyp 5% H2O
Fe 80 Sb 20

7g

4282
4283) Glaister 28 selfheated 5% H2O
Fe 80 Sb-20
6.5g

4284
4285) Glaister 29 non-pyro 5% H2O
Fe 80 Sb-20
4.5g

4286
4287) Glaister 29 selfheated 5% H2O
Fe 80 Sb-20
4.5g

4288
4289 Glaistu 30 non pyro 5%MgO
Fe80Al20
5,5g

4290
4291 Glaistu 30 selfheated 5%MgO
Fe80Al20
5,5g

4292
4293 Glaistu 31 non pyro 5%MgO
Fe80Al20
4,5g

4294
4295) Glaister 31 selfheated 5%HgO
FeSbL20
4.5g

4296
4297) Glaister 32 selfheated 5%HgO
FeSbL20
6g

4298
4299) Glaister 32 non pyro 5%HgO
FeSbL20
6g

N.B. Pb & with cage chin. % are approximate see Rin.

4300
4301) Phenter 33 non pyro 5% H2O
Fe80Sb20
5g

4302
4303) Phenter 33 oxidized 5% H2O
Fe80Sb20
5g

4304
4305) P 61 non pyro 5% H2O
Fe80 Mo20
5g

4306
4307) B 61 reflected 5%HgO
$FeSO_4WO_2O$
4.5g

4308
4309) B 62 non pyro 5%HgO
$FeSO_4WO_2O$
4g

4310
4311) B 62 reflected 5%HgO
$FeSO_4WO_2O$
3g

4312
4313) G 63 non pyro 5%HgO
Fe 80 Ni 20

5g

4314
4315) G 63 selfheated 5%HgO
Fe 80 Ni 20

4g

4316
4317) G 65 non pyro 5%HgO
Fe 80 Ni 20

4g

4318
4319) 8 65 reflluated 5% HgO
Fe80 Wo20
3.5g

4320
4321) 8 66 nonflux 5% HgO
Fe80 Wo20
3.5g

4322
4323) 8 66 reflluated 5% HgO
Fe80 Wo20
3g

4324
4325) B 67 non pyro 5% H_2O
$Fe_{80}W_{20}$
4g

4326
4327) B 67 calcinated 5% H_2O
$Fe_{80}W_{20}$
4g

4328
4329) B 68 non pyro 5% H_2O
$Fe_{80}W_{20}$
4g

4330
4331) Y 68 selfheated 5% of HgO
Fe 80 W 020

4g

4332
4333 Reg mix from which has
been in 33% several days
on hot plate & then washed
press of KOH — 5 grms

5g

4334 Ra 1001 A 10% HgO
4335 " } To be run on hot
4336 } Enclosure in 21% KOH,

4336 - Ra 1001 - A 12½% KOH, 3 grms di OH,
251 Hot - 1490 2305 to be run on hot enclosure
1520 2360
1600 2389

Ra 1001 C – 5% Hg O

4337 } Put up 2 ni tubes 21% KOH,
4338 } Run Hot endurance
251 Hot 1608 2270
1925 2345
1561 2295

Ra 1001 C 5% Hg O

4339 Put up 2 nickel tubes 21% KOH
3 grms Li OH, Run hot endurance

5% Hg O

4340 } Ra 1001 B – Put up with 2 nickels –
4341 } 21% KOH, Run hot Endurance
251 Hot 1695 2524
1565 2387
1615 2345

5% Hg O

4342 Ra 1001 B put up 2 nickels 21%
3 grms Li OH, Run Hot endurance –

4343 (W) 86 nm tyre 5% Hg O
4344 " " "
4.5 g

Fe Cu + Chrom

4345 (W) 86 Selfhardened 5% Hg O
4346 4g " " "
Fe Cu chrom

4347 (W) 87 non fusion 5% Hg O
4348 " " "
4g Fe Cu chrom

4349 (W) 87 Selfhardened 5% Hg O
4350 " " "
3.5g Fe Cu chrom

4351 (W) 88 non fypro 5% HgO
4352 " " "
4g Fe blue

4353 (W) 88 sulphiated 5% HgO
4354 " " "
5g Fe blue

4355 (W) 89 non fypro 5% HgO
4356 " " "
4.5g Fe Sulfate Fe

4357 (W) 89 Lyophilized 50% Hg 0
4358 4g " " "
Cu Zinc Fe

4359 (W) 109 non pyro 50% Hg 0
4360 " " "
5g
Fe + Cu

4361 (W) 109 self healed 50% Hg 0
4362
5.5g Fe + Cu

4363 (W) 110 non pyro 5% Hg O
4364 3g
Fe + Cu

4365 (W) 110 Sulphated 5% Hg O
4366 3.5g
Fe + Cu

4367 B 77 non pyro 5% Hg O
4368 3.5g
Fe 45 Bi 5

Good

4369 B 77 selfheated 5% HgO
4370 6g
good
F<45 Bi 5

4371 B 78 non pyro 5% HgO
4372
5g F<95 Bi 5

4373 B 78 selfheated 5% HgO
4374 5.5g F<95 Bi 5
good

4375 B 79 non pyro 5% HgO
4376 5g Fe 95 Ni 5

4377 B 79 sulphuric 5% HgO
4378 good 5g Fe 95 Ni 5

4379 B 80 non pyro 5% HgO
4380 6g Fe 95 Ni 5

4:381 B80 selfheated 5% Hg O
4:382 7g Fe4SBi5

4:383 B81 monpyro 5% Hg O
4:384 4g Fe4SBi5

4:385 B81 selfheated 5% Hg O
4:386 5.5g Fe4SBi5

4387 B82 non pyro 5% HgO
4388 Fe95Bi5
4.5g

4389 B82 selfburned 5% HgO
4390 Fe95Bi5
[redacted] 4.5g

4391 B83 non pyro 5% HgO
4392 5g Fe95Bi5
good

4393 B 83 selfheated 5% HgO
4394 5g
Fe95Bi5
good

4395 B 84 non hyro 5% HgO
4396 4g
Fe95Bi5

4397 B 84 selfheated 5% HgO
4398 5g
Fe95Bi5
good

4399 B 85 non typo 5% Hg 0
4400 6g
Fe 95 Bi 5

4401 B 85 reheated 5% Hg 0
4402 6g
good
Fe 95 Bi 5

4403 B 86 non typo 5% Hg 0
4404
5g
Fe 95 Bi 5

4405 B 86 selfheated 5% Hg-0
4406
6g
Fe 95 Bi 5

4407 B 87 non hyst 5% Hg 0
4408
3g
~~Fe 95 Bi 5~~
Fe only

4409 B 87 selfheated 5% Hg 0
4410
3.5g
Fe only

4411 B 88 non pyro 5% HgO
4412 4g F=99 Bi 1

4413 B 88 self heated 5% HgO
4414 4g F=99 Bi 1

4415 B 89 non pyro 5% HgO
4416 3.5g F=98 Bi 2

4417 B 89 selfheated 5% HgO
4418 4g Fe98Bi2
good

4419 B 90 non pyro 5% HgO
4420 3g Fe95Bi5

4421 B 90 selfheated 5% HgO
4422 3.5g Fe95Bi5
good

4423 B91 non pyro 5% HgO
4424 " "

F<95Ri5

4425 B 91 selfheated 5% HgO
4426 " "

F<95Ri5

4427 B 92 non pyro 5% HgO
4428 " "

F<95Ri5

4429 B 92 selfheated 5%HgO
4430 4g
Fe95Bi5

Good

4431 B 93 non fuyso 5%HgO
4432 4.5g
Fe95Bi5

4433 B 93 selfheated 5%HgO
4434 5g
Fe95Bi5

4435 B 69 non pyro 5% HgO
4436 4g
Fe 80 W 20

4437 B 70 selfheated 5% HgO
4438 45g
Fe 80 W 20

4439 B 70 non pyro 5% HgO
4440 4g
Fe 80 W 20

4441 ⊖ 71 non fuse 5% HgO
4442 4g

Fe 80 W 20.

4443 ⊖ 69 nelfiscated 5% HgO
4444 3.5g

Fe 80 W 20.

4445 RA 1006 — Ferrous Nitrate
4446 10% HgO —
5 grammes
4 nickel tubes — 21% 2 grms
2 Off Each Cell —
Half Endurance —
Cobalt flake 258 Hot 1610 2758 1525 2153

4447 RA 1006 — 7% Na SO4 —
4448 10% HgO —
5 grms

4 nickel Tubes run 21% KOH
only — Hot Fuderunas
258 Hrs: 1040 1520
1285 1930 Cobalt flake

4449 } Ferrous Sodium Sulphate
4450 } Cluster #36 3rd Crystallization
4 grms Selfheated 10% HgO

4451 } Ferrous Sodium Sulphate
4452 } Cluster #39 6th Crystallization
4 grms Selfheated 10% HgO

4453 } Ferrous Sodium Sulphate
4454 } Cluster #41 8th Crystallization
4 grms Selfheated 10% HgO

4455 } Ferrous Sodium Sulphate
4456 } Cluster #42 4th Crystallization
4 grms Selfheated 10% HgO

4457 to incl are special irons
Mr. Edison asked Dr Grothe to make

4457
4458 } B 47 #1 non pyro 5% Hg O

4459
4460 } B 47 #1 selfheated 5% Hg O

4461
4462 } B 47 #2 non pyro 5% Hg O

4463
4464 } B 47 #2 selfheated 5% Hg O

4465
4466 } B 47 #3 non pyro 5% Hg O

4467
4468 } B 47 #3 selfheated 5% Hg O

4469
4470 } B 47 #4 non pyro 5% Hg O

4471
4472 } B 47 #4 selfheated 5% Hg O

4473
4474 } E 47 #5 nonfyro 5% Hg O

4475
4476 } E 47 #5 selfheated 5% Hg O

4477
4478 } Glaister # 34 Ferrous Sod. Sulphate
1st crystallization: No Hg O
selfheated

4479
4480 } Glaister 34 Ferrous Sod Sulphate
1st cryst. 10% Hg O selfheated

4481
4482 } Glaister 35 Ferrous Sod Sulphate
2nd Cryst. 10% Hg O self-heated

4483
4484 } Glaister 37 Ferrous Sod Sulphate
4th cryst selfheated 10% Hg O

4485
4486 } Glaister 38 Ferrous Sod sulphate
#5 cryst. Selfheated 10% Hg O

4487
4488 } Glaister # 40 Ferrous Sod Sulph.
selfheated 7th cryst 10% Hg O

4489
4490 } Glaister # 43 Ferrous Sod Sulph.
10 cryst. selfheated 10% Hg O

4491 etc Vset Efficy 72.6 %
92 a.H. 79.3
93 KOH. 57.5

Na'better than Reg

Goneto Hooper for Ref

Steel,

4491 } 3 flat packets, oxidized black, and
4492 } raw through hydrogen
4493 } 5 gm #1034 Sum. 21% KOH. Run. Reg.
158 Hot } 1385 1960
925 1370
1010 1495

4494 Exp. No 5 Pocket. Flat Pocket oxidized over bunsen then coated with conc. sol of Ni Acetate and oxidized over bunsen (Repeated 3 times) then reduced in H heated with 792 Mix (reg iron) 21% KOH.

4495 Same as 4494 except loaded with #1034 Mix
4496 21% KOH

4496 Exp. No 9 Pocket coated with a mush made of Anhyd. Ni Oxide and H_2O oxidized over bunsen, heated just a little more than would drive off the H_2O (this repeated twice) no previous oxidization of pocket before coating loaded with #792 Mix (reg Fe) 21% KOH

4497 Same as 4496 except loaded with #1034 Mix
4499 21% KOH

4498 Exp. No 10 Same as the No 9 Exp. #4496 except that the mush was made slightly alkaline by the addition of KOH Loaded #792 Mix
21% KOH

4499 Same as 4495 except loaded with
#1034 Mix 21% KOH

4494 to 4499 Steel pot cif against 4 nickels (TUBES)

The reason the cells on the other page were marked with A after them was because there were other runs from the numbers that were duplicate

4495
4496 - 4497 - 4498 - 4499

4495A
4496A } 2 Grows 8½ gram
100 Sp 100 Cotr — first
Make in big 16 chromosome

4495 #01 Cells 127 #02 4496 Cells 125
Size 141 Size 140
" 144 " 140

4497 A 2 Nickel tubes
each 2 mm —

Reg 5 mm 2 mm used in test
Cell. with Tubes — dipped 45 minutes
in CP Rich acetone free from 2 mm
then dried hot plate — then KOH,
washed free Chloride in cold water
Seal —

21% KOH, after running
Reg gave to Holland for
Ecolony test then built
on hot test 25 times
Run Cold & gave to Holland
for further tests then put
back hot test

4498 A Dup ref on 6-0-0-2
but 21% KOH 2 grams KOH.

		V	V
25 Hot.	4497	2075	3045
	4498	2100	3083

gave about 1300 on 750.

Cell 7½ have in new process 7½
used in test cells past 6 months —

4499A Edison 88 Reg 5 gm non same as used on test cells — Soaked 15 min $BiCl_3$ dried little — then soaked few minutes KSO4 — washed little then in KOH dilute for in cells — KOH not washed out 4 times — 1600 — V.

4500 Dup of 4499 except Conc $BiCl_3$ NH_4Cl — then KOH — Edison 89 1850 V

4501 Edison No 90 ½ strong cl $BiCl_3$ NH_4Cl dried then Little Clean KOH, 1825 V

4502 Edison 91. Soaked $SrCl_2$ then KSO4 1300

4503 Edison 92 $MgCl_2$ then KOH 995

4504 Edison 93 Ferric Sulphate (ferric) then KOH 1880

4505 Edison 94 Cadmium Sulphate then KOH — 710

Above in 2% KOH

4506 — E 97 — Reg 5 gm 7½ — dipped Conc $BiCl_3$ in XCP acetone (10 $BiCl_3$ in acetone distilled) pocket not washed acetone, only dried a little — then KOH 20 washed — 1945 V

4507 = E 95 5 gm Reg 7½ used test cells ~~Dipped~~ Soaked chromate K. then ~~dipped~~ dipped $BaCl_2$ = washed clean KOH washed — 2% KOH. 900

(W) 28 Hatchets Brown

(W) 32. Ferrous Cupri Ammon chloride.

(W) 33. Ferric oxyde + Ammon chloride.

(W) 41 Ferrous Ammon sulfate.

(W) 42. Ferrous Zinc K sulfate Sodium chloride.

(W) 43. Ferrous Zinc K sulfate

(W) 48. Cupric Ferrous Ammon sulfate.

(W) 50 Ferrous Meth. nitrate

(W) 51 Ferrous Cupri Stannous Zinc Cadmium ~~oxalate~~ oxyde.

(W) 53. Ferric oxyde + Sodium chloride + Sod. sulfate.

(W) 54. Ferrous Ammon sulfate

(W) 55 Ferric Ammon chloride.